

IN THE SPECIFICATION

Please replace the paragraph starting on page 3 line 32 to page 4 line 10 with the following paragraph:

In one embodiment, wraps 48 are layered about longitudinal axis 42 in an Archimedes spiral defined by the relationship

$$R=A\theta$$

a) where A is a selected constant, θ is an angular distance from a beginning, or center, of the spiral, and R is a radial distance to a point in the spiral from the center of the spiral. Therefore, R constantly increases along each wrap 48, and a distance between adjacent wraps 48 ~~as~~ is approximately equal from one wrap to the next. In a further embodiment, each wrap includes segments of an Archimedes spiral having different center points to facilitate manufacturing of spiraled tube and wire member 10. Other types of spirals, with or without multiple centers for the wraps, and with or without substantially uniform distance between the wraps, are employed in various alternative embodiments without departing from the scope of the invention.

Please replace the paragraph starting on page 5 lines 1-7 with the following paragraph:

a2) A baffle ~~60~~ 68 is mounted at condenser second end 18 to prevent longitudinal air flow parallel to wires 14 that decreases heat transfer efficiency. Fan blade 62 is mounted at condenser first end 16 and draws air through condenser 40 substantially perpendicular to condenser outer surface 24 and longitudinally after condenser 40 and toward compressor 64 to cool compressor 64 as well. In alternative embodiments, other closure members besides baffle ~~66~~ 68 are used to close condenser second end.

Please replace the paragraph starting on page 5 lines 8-15 with the following paragraph:

a3) Thus, a compact, energy efficient and inexpensive condenser 40 is provided. Condenser 40 is easily fabricated by bending flat tube and wire member 10 (shown in Figure 1) into a spiral shape about longitudinal axis 42, and because air flow is directed substantially

Express Mail No.: EV299864671US

PATENT
Atty. Dkt. No.: 9D-HR-19273

perpendicularly and evenly through condenser surface 24, condenser outperforms condensers of the prior art and reduces the need for extra coil to achieve a desired heat transfer to the air. Furthermore, the compactness is achieved without the use of small radius elbows connecting evaporator tube segments that tend to increase condenser cost and decrease condenser reliability.
